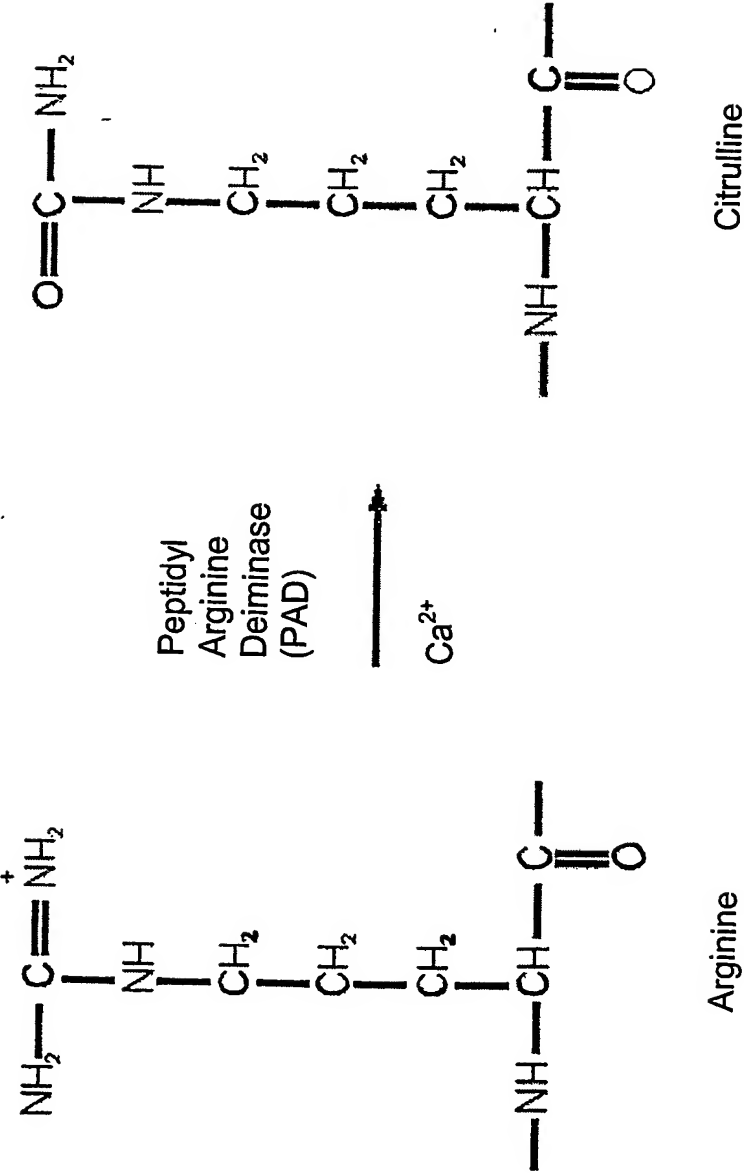


Fig. 1



The enzymatic conversion of protein-contained Arginine to citrulline.

Fig. 2

hePAD mePAD	1 1	MVSVEGRAMSFQSIHLSLDSPVHAVCVLGTETCLDLGCAPOKQCQCFTHSGRVLIDVANTVISEKEDATIWWPLSDPTVATVKMTSPSPSVDADKVS -----MVGMEITLDISKCAPDKCKSFIRGSPRILIHSSSVIAGKEDTVVWRSMNHPTVALVRMVAPSPPTVDEDKVL	100 73
hePAD mePAD	101 74	VYYGNEDAPVGTAVLYLTGIEPFGAQRSSQSFPVLLPVSEVSQAQEAESLEVDIYRNGQVEMSSDKQAKKWIWGPSGWGAILLVNCNPADVGOQL VSYFCPDQDEVPTATAVLFLTGI-----EISLEADIYRDGQLDMPSPDKQAKKMMWGMNGWGAAILLVNCSPNAVGOXL	200 145
hePAD mePAD	201 146	EDKTKKVIFSEETNLSQMTLNVOGPSCILKKYRLVLHTSKEESKKARVYWPQKDNSSTFELVLGPDQHAHYTLALLGNHLKETFYVEAIAFPSEAFSGL MNSPFRXXPREIQNNLSQMNVTVEGPTSILQNYQLILHTSEEEAKKTRVYWSQGSXXAYELVVGNPKPVYLLPTTFENRRKEAFYVEATEFPSPFSGL	300 245
hePAD mePAD	301 246	ISYSVSLVERSDPSIPETVLYKDTVVRVAPCVFIPCTQVPLEVYLCRELQLQGFDVTVKLSEKSNQSVASVVEDPNRLGRWLQDEMAFCYTQAPHKT ISLSLSLVEKAHDECIPETVLYKDTVMFVAPYIFMPSTQMPLEVYLCRELQLQGFDVSVTKLSEKSKVQVVKVYEDPNRQSKWLQDEMAFCYTQAPHKT	400 345
hePAD mePAD	401 346	TSLILDTPQAADLDEFPMKYSLSPGIGYMIQDTEDEHKVASMDSIGNLMVSPVVKQKEYPLGRVLIGSSFPSAEGRAMSKTLRDFLYAQVQVQAPVELY VSLILDTPRVSKLEDFPMKYTLTPGSGYLIRQIEDHRVASLDSIGNLMVSPVVKQKEYPLGRVLIGGSFSPSEGRDMNKGRLREFVYVYVQVQVQAPVELF	500 445
hePAD mePAD	501 446	SDWLMTGHVDEFMCFIPTDDKNEGKKGFLLLASPSACYKLFREKQKEGYGDALLFDELRADQLLSNGREAKTIDQLLADESLLKKQNEXXXECIHLNRDI SDWLMTGHMDDQFMCVPTNDKNNDQKDFRLLLASPSACFELFEQKQKEGYGNVTLFEDIGAEQLLSNGRESKTSIQILADKSFREQNTYVEKICISLNRTL	600 545
hePAD mePAD	601 546	LKTELGLVEQDIIIEIPQLFCLEKLTNIPSDQQPKRSFARPYFPDILRMIVMGKNLGIKPFPGQIKGTCCLEEKICCLLEPLGFKCTFINDFDCYLTEVG LKTELGLEDKDIIILIPQLFCLEQLTNVPSNQOSTKLFARPYFPDMLQIIIVLGKNLGIKPFPGPKINGTCCLLEKVCGLLEPLGLKCTFIDDFDCYLANIG	700 645
hePAD mePAD	701 646	DICACANIRRVFFAFKWKWMP* DVCASAIINRVFFAFKWKWTP*	723 668